

## Wide Band Parabolic Antennas

# Standard Performance Parabolic 4.9 to 6 GHz

The SP Standard Performance 5W Series by RadioWaves offers dual polarized, 2 ft, 3ft, 4ft, and 6ft parabolic antennas engineered to deliver reliable radio links with a stable gain over 4.9 to 6 GHz in a low wind load and low-weight platform

Designed for 5 GHz ISM, U-NII-1, -2, -3, -4 and 4.9 GHz public safety bands, RadioWaves 5W SP Series antennas provide high gain, superior side lobe performance, and optimal cross polarization discrimination and port isolation across the entire band.

RadioWaves field proven preassembled antennas provides a durable platform built for a broad range of environments and its robust pole mounts ensure “set and forget” installation with minimal post installation maintenance.



### FEATURES

- Gain from 30-38 dBi with low VSWR, high pol. discrimination and port isolation across entire 4.9 to 6 GHz band
- Optional UV-resistant, conical-shape radome lowers the antenna’s windload and reduces snow/ice accumulation
- One antenna that covers the entire unlicensed 5 GHz ISM UNII-1, -2, -3, -4 and 4.9 GHz public safety bands
- Includes RadioWaves rugged mounting kit with fine azimuth and elevation adjustment and 6-point mounting connection
- Reduced interference with front to back up to 46 dBi and suppressed side lobes
- Designed to withstand wind speeds of 125 mph (201kmh) and up to 175mph (280kmh) with strut kit accessories
- Fully powder coated with rugged hardware built to survive the harshest environments
- Dual N type Female Connectors for 2x2 MIMO polarization diversity
- Fully Preassembled at the Factory – Simplifies installation on site and guarantees “factory tested” quality

### GENERAL SPECIFICATIONS

Model	SPD2-5W	SPD3-5W	SPD4-5W	SPD6-5W
Antenna Type	Parabolic	Parabolic	Parabolic	Parabolic
Size, Nominal	2 ft   0.6 M	3 ft   0.9 M	4 ft   1.2 M	6 ft   1.8 M
Polarization	Dual	Dual	Dual	Dual
Standard RF Connector Type	N-Female	N-Female	N-Female	N-Female

### ELECTRICAL SPECIFICATIONS

Operating Frequency Band	4.9 to 6 GHz	4.9 to 6 GHz	4.9 to 6 GHz	4.9 to 6 GHz
Half Power Beamwidth, Horizontal	6.2°	4.2°	3.1°	2.1°
Half Power Beamwidth, Vertical	6.2°	4.2°	3.1°	2.1°
Cross-Polarization Discrimination, dB	30	30	30	30
Front to Back Ratio, dB	38	40	44	46
Gain, Low Frequency, dBi	28.1	31.6	34	37
Gain, Mid Frequency, dBi	31.6	32.5	34.9	37.9
Gain, High Frequency, dBi	34	33	35.4	38.4
VSWR	1.5:1	1.5:1	1.5:1	1.5:1
Return Loss, dB	-14	-14	-14	-14
Port Isolation, dB	30	30	30	30

## MECHANICAL SPECIFICATIONS

Model	SPD2-5W, SPD3-5W, SPD4-5W, SPD6-5W
Fine Azimuth Adjustment	10°
Fine Elevation Adjustment	25°
Mounting Pipe Diameter, Min, Inches	2
Mounting Pipe Diameter, Max, Inches	4.5
Wind Velocity Operational	90 mph
Wind Velocity Survival Rating	125 mph (up to 175 mph with strut kits)
Operating Temperature Range	-40 to +60 C

## SHIPPING

Model	SPD2-5W	SPD3-5W	SPD4-5W	SPD6-5W
Package Type	Cardboard	Wood Crate	Wood Crate	Wood Crate
Gross Weight	25 lbs	78 lbs	126 lbs	222 lbs
Dimensions, L x W x H, Inches	28 x 8 x 28	40 x 17 x 44	59 x 19 x 60	77 x 20 x 80
Shipping Volume	3.6 cu ft.	17.3 cu ft.	38.9 cu ft.	71.3 cu ft

## GRAPHICAL DATA

